



TUROVA-POLYAK, M.B.; SOSNINA, I.Ye.; TRESHCHOVA, Ye.G.

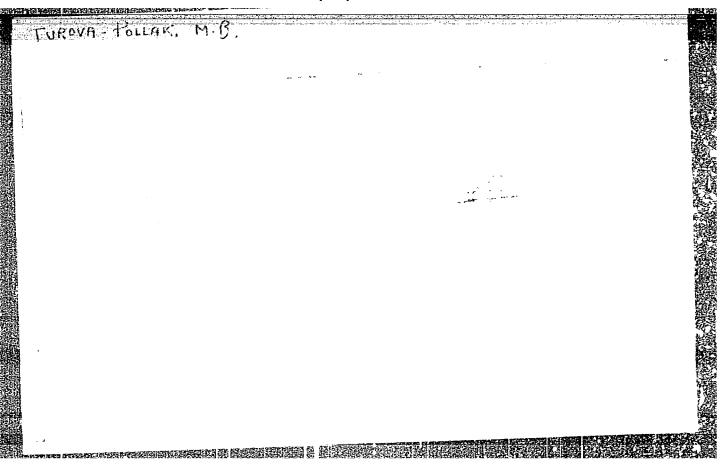
Isomerization of polymethylene hydrocarbons under the influence of aluminum.

Part 18. Isomerization of dicyclopentyl. Zmr.ob.khim. 23 no.7:1111-1116

(MLRA 6:7)

J1 *53.

1. Kafedra organicheskogo kataliza Moskovskogo Gosudarstvennogo universiteta.
(Isomerism) (Cyclopentyl)



TUROVA-POLYAK, M.G.

USSR/Chemistry - Catalytic conversion

Card 1/1 : Pub. 151 - 14/42

Authors : Turova-Polyak, M. G.; Danilova, N. V.; and Treshchova, E. G.

Title : Catalytic alkylation of benzene with butyl alcohol

Periodical : Zhur. ob. khim. 24/9, 1558-1562, Sep 1954

Abstract: The reaction of benzene alkylation with butyl alcohol was realized for the first time in a flowing system at atmospheric pressure. The chemical properties of the reaction products obtained are described. A temperature of 3000, molar ratio of benzene: n-butyl alcohol of 4:1 and a volumetric rate of feeding the reaction mixture of 0.66 - 2.4 are considered the optimum conditions favorable for the derivation of butyl benzenes. The percentage yield of butyl benzene was calculated. Fifteen references: 9-USA; 1-German and 5-USSR (1929-1953). Tables;

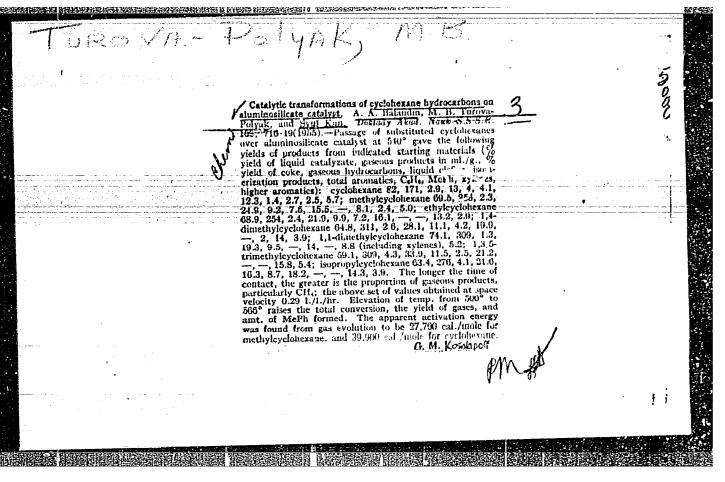
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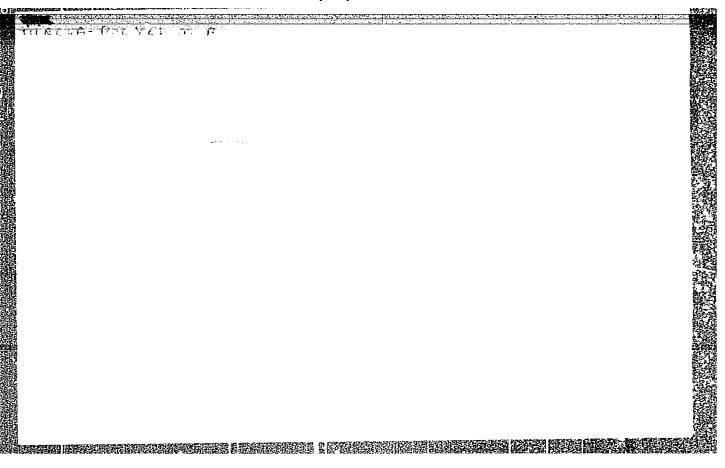
Institution : State University, Moscow

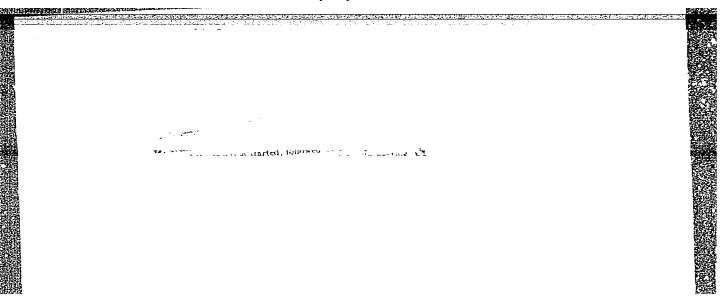
Submitted : April 19, 1954

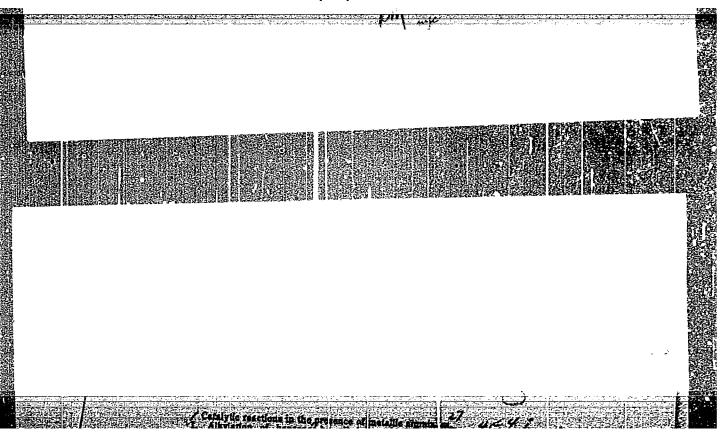
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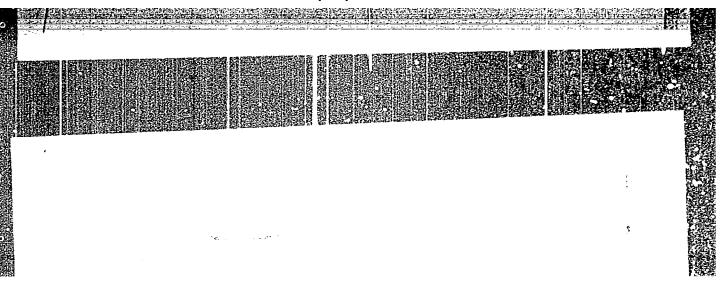
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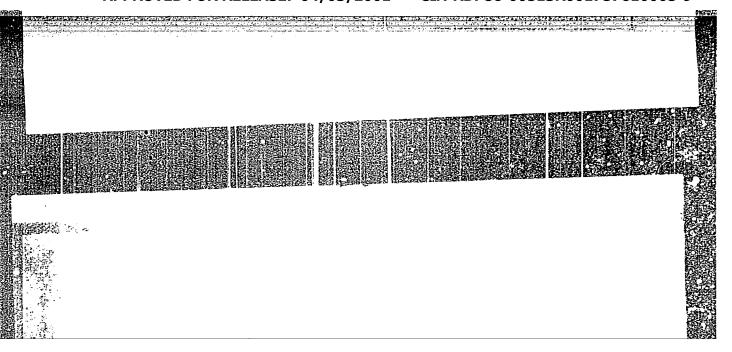


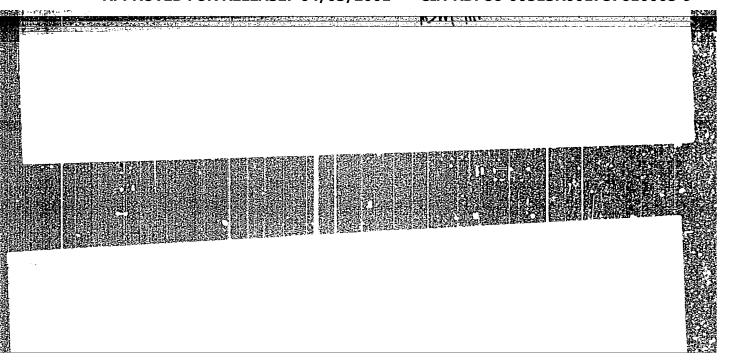


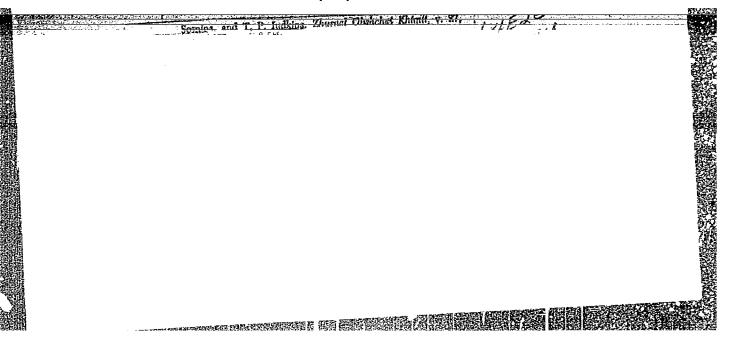


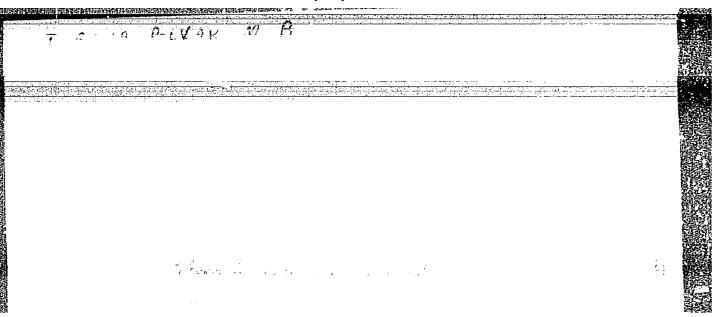


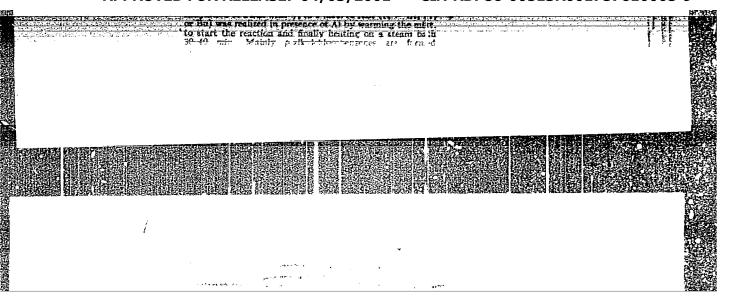


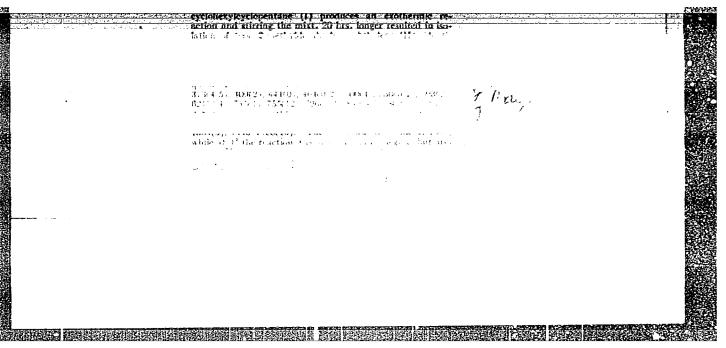












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USSR/Physical Chemistry (- Kinetics, Combustion, Explosions, Topochemistry, Catalysis.

B-9

Abs Jour: Referat. Zhurnal Khimiya, No 3, 1958, 7257.

Author : A.A. Balandin, M.B. Turova-Polyak, A.Ye. Agronomov,

I.M. Khorlina, L.S. Kon'kova.

Inst : Academy of Sciences of USSR.

Title : Catalytic Dehydration of Alcohols on Anhydrous Magnium Sulfate.

Orig Pub: Dokl. AN SSSR, 1957, 114, No 4, 773-776.

Abstract: The dehydration of cyclohexanol, cyclopentanol, pentanol-2 and propanol-2 in the vapor phase at 400 to 410° and at the volume rate of 0.4 in presence of anhydrous MgSOL proceeds practically to the end. The apparent activation energies in the range from 360 to 400° are from 14370 to 15910 cal per mole, which, in the authors' opinion, is stipulated either by the same orientation of alcohol molecules with reference to the catalyst surface, or by that all these reactions are

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SOURCE CODE: UR/0020/66/167/003/0604/0606 ACC NR: AP6011659 SOURCE CODE: UR/0020/66/167/003/0604/0606 AUTHOR: Turova, N. Ya.; Popovkin, B. A.; Novoselova, A. V. (Δεκτεισμένως περιδεκτ ΑΝ SSSR) ORG: Moscow State University im. M. V. Lomonosov (Moskovskiy gosudarstvennyy universitet) TIFLE: X-ray analysis of methylates of alkali-earth metals SOURCE: AN SSSR. Doklady, v. 167, no. 3, 1966, 604-606 TOPIC TAGS: X ray analysis, beryllium, magnesium, calcium, strontium, barium ABSTRACT: The authors made an x-ray analysis of methylates of Be, Mg, Ca, Sr, and Ba in the form of powder products obtained upon desolvation of Me (OCH 3)2 · 4 CH 3OH (Me=Mg, in the form of unsolvated alcoholates. The x-ray patterns of the powder were obtained Ba) or in the form of unsolvated alcoholates. The x-ray patterns of the powder were obtained mon Fe-K-radiation in an RKD-57 camera. The parameters were refined on the basis of the powder patterns recorded on CuKα-radiation with the use of a monochromatic illuminator. The specimens of the alcholates for photographing in the RKD camera were prepared by filling the specimens of the alcholates for photographing in the RKD camera were prepared by filling the specimens of the alcholates for photographing in the RKD camera were prepared by filling the specimens of the alcholates for photographing in the RKD camera were prepared by filling the specimens of the alcholates for photographing in the RKD camera were prepared by filling the specimens of the alcholates for photographing in the RKD camera were prepared by filling the specimens of the alcholates for photographic in an argon atmosphere. Suspensions capillary tubes made of pyrex glass in a dry chamber in an argon atmosphere. Suspensions of powders in absolute liquid petrolatum were used for recording in the monochromator. The	
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ACC NR: AP6011659

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density was determined pycnometrically and by the suspension method in mixtures of absolute benzene with CCl₄ or CHBr₃ with preliminary pressing of the powders in a vacuum. Both methods yielded results which agreed well. The quality of the x-ray patterns of the alkaliearth methylates somewhat deteriorates upon changing from strontium to calcium, only diffuse rings were present on the powder x-ray patterns of Mg (OCH3)2, and Be (OCH3)2 represented a completely x-ray amorphous substance. The x-ray patterns of Ca (OCH3)2, Sr (OCH3)2, Ba (OCH3) 2 were fully identified in the hexagonal cells. On the basis of the coincidence of the indexes of the lines of the powder x-ray patterns of Ca (OH)2 and of the methylates, their sequence, and the relative intensity, the authors conclude that all alkali-earth methylates are isostructural to calcium hydroxide and have the same space group P3ml (C3m). These methylates apparently have a laminar structure with the following alternation (in the direction of the c-axis) of atoms: [(CH3)OmeO(CH3)][(CH3)OMe.... each of these atoms forms a layer perpendicular to the c-axis. This structure of the methylates is confirmed by the difference of the parameters of c in hexagonal cells of Ca (OCH3)2 and Ca (OH)2 amounting to 3.44 A, which is very close to the difference between the heights of the cells of Landing and LiOH (3.55 A). The constancy of the heights of the unit cells which was observed upon transition from Ca (OCH3)2 to Ba (OCH3)2 is attributed to the rather sharp increase of the degree of ionization of the metal-oxygen bond from the former to the latter compensating the increase of the radius of the metal. The same constancy of heights is observed in the methylates of lithium and sodium and for Na (OCH3)0.66 (OH)0.33 and KOCH3. Orig. art. has:

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5 (2) AUTHORS:

Balandin, A. A., Turoya-Polyak, M. B., SOY/

507/62-59-8-33/42

Levi, C. I., Khayfits, L. A.

TITLE:

On the Formation of Elementary Phosphorus Under the Effect of Hydrogen and Vapors of Organic Substances on a Phosphoric Acid

Catalyst on Activated Coal

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk,

1959, Nr 8, p 1499 (USSR)

ABSTRACT :

In this short communication the authors report on the conditions and causes of elementary phosphorus forming during work with the above mentioned phosphoric acid catalyst. When hydrogen and vapors of organic substances pass over the catalyst the formation begins at 400° and, in the case of nitrogen, at 600°. Oxygen traces in the vapors prevent phosphorus formation. It is supposed that the phosphorus reduction is effected by the especially active surface atoms of the activated coal and the hydrogen atoms. There

is 1 Soviet reference.

Card 1/2

On the Formation of Elementary Phosphorus Under the SQV/62-59-8-33/42 Effect of Hydrogen and Vapors of Organic Substances on a Phosphoric Acid Catalyst on Activated Coal

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova

(Moscow State University imeni M. V. Lomonosov). Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy, Academy

of Sciences, USSR)

SUBMITTED: Feb

February 19, 1959

Card 2/2

BALENKOVA, Ye.S.; SOSNINA, I.Ye.; TUROVA-POLYAK, M.B.; KHROWOV, S.I.

Studying the effect of aluminum chloride on cyclodecane; brief report. Vest.Mosk.un.Ser.mat., mekh., astron., fiz., khim. 14 no.3:203-204 '59. (MIRA 13:5)

1. Kafedra organicheskogo kataliza Moskovskogo gosudarstvennogo universiteta. (Aluminum chloride) (Cyclodecane)

Turova-Polyak, M. B., Sosnina, I. Ye., SOV/79-29-1-22/74 Yudkina, T. P. AUTHORS:

Voznesenskaya, I. I.,

Isomerization of the Polymethylene Hydrocerbons Under the Influence of Aluminum Chloride (Izomerizatsiya polimetilenovykh TITLE:

uglevodorodov pod vliyaniyem khloristogo alyuminiya)

XXII. Isomerization of the Dicyclopentyl Methane (XXII. Izo-

merizatsiya ditsiklopentilmetana)

Zhurnal obshchey khimii, 1959, Vol 29, Nr 1, pp 97-101 (USSR) PERIODICAL:

In this paper the behavior of dicyclopentyl methane (a hydrocarbon which may belong to the constituents of the petroleum ABSTRACT: fraction of mineral oil, as far as its constants are concerned)

was investigated on its reaction with AlCl and the influence

was clarified that is exerted by the methylene group which separates the two five-membered rings, upon the direction of isomerization. On the basis of the experimental results of the present paper it may be regarded as being proved that dicyclopentyl methane, like dicyclopentyl, is subjected to skeleton isomerization under the influence of aluminum chloride and is

transformed into the trans-/3-methyl decahydro naphthalene.

Card 1/2

isomerization of the Polymethylene Hydrocarbons Under SOV/79-29-1-22/74 the Influence of Aluminum Chloride. XXII. Isomerization of the Dicyclopentyl Methane

At 23-27° isomerization takes place in a 96-98 % yield, at 0° in a smaller yield and at -5° there is no isomerization any longer. The presence of /3 -methyl decahydronaphthalene was found by catalytic dehydrogenation and confirmed spectroscopically. On the dehydrogenation the /3 -methyl naphthalene was separated and identified as picrate. According to the results obtained it is proved that the methylene group which is situated between the two rings in dicyclopentyl methane does not appreciably influence the direction of isomerization. An attempt was made to establish the isomerization mechanism of dicyclopentyl methane into the trans-/3-methyl decahydronaphthalene (see both schemes). There are 1 table and 14 references, 9 of which are Soviet.

ASSOCIATION:

Moskovskiy gosudarstvennyy universitet (Moscow State University)

SUBMITTED:

November 21, 1957

Card 2/2

SOV/79-29-4-6/77

5(3) AUTHORS: Turova - Polyak, M. B., Dobrosel'skaya, N. P.

TITLE:

Catalytic Reactions in the Presence of Metallic Aluminum (Kataliticheskiye reaktsii v prisutstvii metallicheskogo alyuminiya). IV. Alkylation of Bromobenzene With Ethyl-n.propyl- and n.-Butyl Bromide. Alkylation of Iodobenzene With n.-Butyl Bromide (IV. Alkilirovaniye brombenzola bromistym etilom, n.-bromistym propilom i n.-bromistym butilom. Alkilirovaniye yodbenzola n.-bromistym butilom)

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 4, pp 1072-1077 (USSR)

ABSTRACT:

The alkylation of chlorobenzene with the above-mentioned alkyl bromides in the presence of metallic aluminum was recently carried out by the authors (Ref 1). It was proved in this paper that also bromobenzene can be alkylated in the same way. In order to investigate more thoroughly the kinetics of the alkylation in the liquid phase (in the presence of aluminum halides), the authors determined the influence exercised by the nature of the alkylating reagents, their mutual ratio, the reaction temperature, the heating time of the reaction mixture, and the activation time of aluminum upon the yield of the alkylation

Card 1/2

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Catalytic Reactions in the Presence of Metallic Aluminum. IV. Alkylation of Bromobenzene With Ethyl-n.-propyl- and n.-Butyl Bromide. Alkylation of Iodobenzene With n.-Butyl Bromide

products. The same dependence of the yield of alkyl bromobenzenes on the nature of the alkyl bromide used and on the composition of the reaction mixture as in the alkylation of chlorobenzene (Ref 1) was established. The yields of alkyl bromobenzenes increase with the increasing molecular weights of alkyl bromides. The maximum yield of alkyl bromobenzene (a mixture of para- and ortho-isomers) is 52%, of n-isopropyl bromobenzene 75%, and of n-isobutyl bromobenzene 80%. Alkylbromobenzenes of normal structure are not obtained. The alkylation of iodobenzene with n-butyl bromide in the presence of metallic aluminum is not possible. There are 5 tables and 21 references, 4 of which are Soviet.

ASSOCIATION:

Moskovskiy gosudarstvennyy universitet (Moscow State University)

SUBMITTED:

March 6, 1958

Card 2/2

SOV/79-29-4-7/77 Turova-Polyak, M. B., Sosnina, I. Ye., Golutvina, I. G., 5(3) AUTHORS: Yudkina, T. P. Isomerization of Polymethylene Hydrocarbons Under the Influence of Aluminum Chloride (Izomerizatsiya polimetilenovykh uglevodorodov pod vlivaniyem khloristogo alyuminiya). XXIII. Iso-TITLE: merization of 2-Methyl-bicyclo-(1,2,2)-heptane (XXIII. Izomerizatsiya 2-metil-bitsiklo-(1,2,2)-geptana) Zhurnal obshchey khimii, 1959, Vol 29, Nr 4, pp 1078-1083 (USSR) Apart from the paper by P. R. Schlever (Ref 1), the contact PERIODICAL: transformations of bicyclic bridge hydrocarbons in the presence of AlCl, have so far not been dealt with. As the basis of many ABSTRACT: natural products the skeleton of bicyclo-(1,2,2)-heptane is of great interest. 2-methyl-bicyclo-(1,2,2)-heptane is obtained by condensation of cyclopentadiene with acrolein and by hydrogenation of 2-methyl-bicyclo-(1,2,2)-heptene-5 in the presence of the skeleton-nickel catalyst. Theoretically two endo- and exoisomers are possible for this heptane which, however, could hitherto not be separated (Scheme 1). Such configurations of the spatial arrangement of hydrocarbons were observed by Schlever Card 1/2

SOV/79-29-4-7/77

Isomerization of Polymethylene Hydrocarbons Under the Influence of Aluminum Chloride. XXIII. Isomerization of 2-Methyl-bicyclo-(1,2,2)-heptane

> (Ref 1). The authors found that 2-methyl-bicyclo-(1,2,2)heptane practically completely isomerizes to bicyclo-(1,2,3)octane by reaction with AlCl, at 75°, i.e. to a system consist-

ing of five- and six-membered rings on the basis of a seven-membered ring. At 100° this reaction is accompanied by the forma-tion of condensation products. At 21-28° a transition from one steric configuration of 2-methyl-bicyclo-(1,2,2)-heptane into the other takes place which was proved by spectrum analysis and the physical constants. On the strength of the results obtained it may be concluded that the part of the molecule of the above heptane which corresponds to methyl cyclopentane reacts in the presence of AlCl, in the same way as in isolated state, i.e. it expands to a six-membered ring. On the hydrogenolysis of bicyclo-(1,2,3)-octane the m-xylene is formed. There are 1 figure, 3 tables, and 15 references, 6 of which are Soviet.

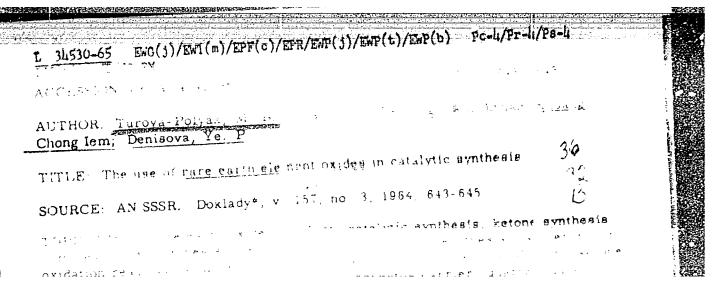
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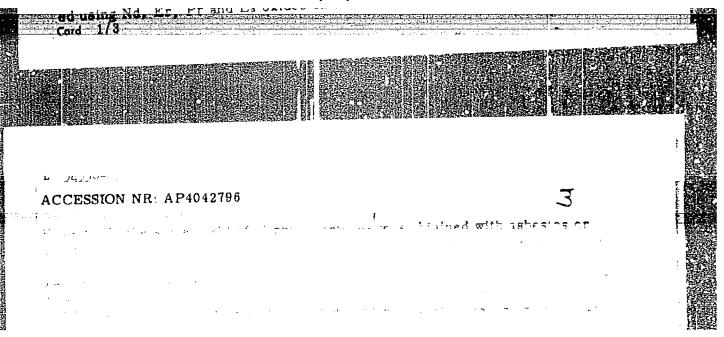
Moskovskiy gosudarstvennyy universitet (Moscow State University)

SUBMITTED:

February 11, 1958

Card 2/2





5 (3)

AUTHORS: Turova-Polyak, M. B., Rudenko, N. V. SOV/20-126-6-40/67

TITLE:

Alkylation of Benzene and Some Substituents by Isopropyl Alcohol

Over an Alumino-silicate Catalyst at Atmospheric Pressure

PREPRINTED THE STATE OF THE STA

(Alkilirovaniye benzola i yego zameshchennykh izopropilovym spirtom nad alyumosilikatnym katalizatorom pri atmosfernom

davlenii)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 6, pp 1289 - 1292

(USSR)

ABSTRACT:

With the increasing importance of the alkyl products the subject mentioned in the title becomes more and more interesting. The catalysts mentioned in the title are widely used, the alkylation in the vapor phase in their presence, however, is still insufficiently investigated. The authors investigated the alkylation of the following: benzene, toluene, phenol, chlorobromo- and nitrobenzene by isopropyl alcohol. They obtained A) Cumene (yield 79%) (source for the production of phenol and acetone, Ref 1); B) zymol from which also styrene homologues (monomers for the production of artificial rubber) (Ref 2) may be

Card 1/4

produced; C) alkyl phenols (washing agent), phenol-formaldehyde--resins, initial substances for frostproof rubbers, Ref 3); D)

Alkylation of Benzene and Some Substituents by Isopropyl Alcohol Over on Alemino-silicate Catalyst at Atmospheric Pressure

SOV/20-126-6-40/67

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Halogen substituents of benzene (semiproducts for various syntheses, especially production of halogen-styrenes, Ref 4) etc. The yields of the latter were: isopropyl-bromine-benzene 69%, zymol 79%, isopropyl-phenol - 81% and isopropyl-chlorine-benzene 63% of the amount of alcohol used for the reaction. Nitrobenzene could not be alkylated. The activity of the catalyst remains sufficiently high for approximately 19 hours (Fig 1). Therefore the catalysts mentioned in the title are suited for alkylation because of the simple regeneration and their anticorrosion properties. The results obtained by the authors concarning the character of the functional groups in the benzene cycle, the temperature at which the reaction is carried out, the velocity of the supply of the reacting components, and their moler ratio agree well with the theoretical principles. The presence of toluene in alkylation products besides p-zymol and m-zymol is in contradiction with the data on the mainly oriented action of the methyl group in an o- and p-position. The interrelation of the products of normal and anormal orientation (Ref 6) depends on the alkylation conditions. The higher the

Card 2/4

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Alkylation of Benzone and Some Substituents by Isopropyl Aldohol Over Calling oilicate Catalyst at Atmospheric Pressure

SOY/20-126-6-40/6/

activity of the catalyst, the duration and the temperature of the reaction, the stronger is the tendency towards a formation of an anomalous mederivative. The mechanism of the catalytic alkylation of the aromatic compounds by alcohols has not yet been definitely determined. Various considerations on a possible explanation of this mechanism are given (Refs 7,8,10,12,14,15). Equations (1), (2) and (3) describe the general mechanism of the reaction investigated. The authors carried out the alkylation in the presence of 100 ml globular alumo silicate for 1 -3.5 hours at 200 - 350°. Figure 3 shows the optimum yields of cument, nymol, isopropyl-chlorobenzene, isopropyl-bromobenzene, and isopropyl-phanul. Figure 4 shows the dependence of the yields on the velocity of the supply. In all cases the reduction of the alcohol concentration favored the increase of the yield of monoalkyl products. The structure of the alkylation products was confirmed by the production of derivatives in some cases also spectroscopically. There are 4 figures, 1 table, and 16 references, 10 of which are Soviet.

Card 3/4

Alkylation of Benzene and Some Substituents by Isopropyl Alcohol Overan Almaino-silicate Catalyst at Atmospheric Pressure 807/20-126-6-40/67

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova

(Moscow State University imeni M. V. Lomonosov)

PRESENTED: March 4, 1959, by A. A. Balandin, Academician

SUBMITTED: March 4, 1959

Card 4/4

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77357 SOV/79-30-1-18/78

AUTHORS:

Turova-Polyak, M. B., Rudenko, N. V., Ling Li-tang

TITLE:

Catalytic Alkylation of Phenol With Isopropyl Alcohol

PERIODICAL:

Zhurnal obshchey khimii, 1960, Vol 30, Nr 1, pp 94-98

(USSR)

ABSTRACT:

The effect of the hydroxyl group on alkylation of phenol

The optimum conditions of the reaction was studied.

over alumino-silicate catalyst are: temperature, 210-230°, and space velocity of reagents, 0.2 hr⁻¹. Increasing the concentration of phenol up to 20 moles per 1 mole of alcohol decreases the yield of disopropylphenols and increases the yield of mono-isopropylphenols up to 81%. Recycling the unreacted phenol raises the yield of monoisopropylphenol to 95%. Increasing the concentration of alcohol in the reaction mixture facilitates the formation of dialkylated

The obtained monoisopropylphenol consists products. primarily of the para isomer with an admixture of the

ortho isomer. The activity of catalyst decreases

Card 1/4

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Catalytic Alkylation of Phenol With Isopropyl Alcohol

77357 SOV/79-30-1-18/78

sharply after 19 hr of use, but it can be fully regenerated by treatment with a strong stream of dry air at 500-550°. The mechanism of the alkylation is explained by the formation of carbonium ions, which alkylate phenol.

$$CH_3-CH-CH_3+H+CH_3-CH-CH_3$$

$$CH_3-CH-CH_3+H+CH_3-CH-CH_3$$

$$CH_3-CH-CH_3+H+CH_3-CH-CH_3$$

$$CH_3-CH-CH_3+H+CH_3$$

$$CH_3-CH-CH_3+H+CH_3$$

The fractional distillation of the obtained product produced several fractions. One of them, bp 124-124.30, mp 15.50, np 1.5282, was o-isopropylphenol. Reaction of o-isopropylphenol with monochloroacetic acid yielded o-isopropylphenoxyacetic acid, mp 131.5-132.50. Reaction of o-isopropylphenol with potassium persulfate produces a blue solution, which is characteristic of

Card 2/4

Catalytic Alkylation of Phenol With Isopropyl Alcohol

77357 SOV/79-30-1-18/78

o-isopropylphenol. The fraction 124.3-136.8°, n²⁰ 1.5271 yielded o-isopropylphenol, n²⁰1.5280, by freezing out, and a small amount of p-isopropylphenol, mp 60°. The fraction 136.8-137.3° yielded crystals of p-isopropylphenol, mp 60° (after recrystallization from alcohol) on cooling. Reaction of p-isopropylphenol with monochloroacetic acid yielded p-isopropylphenoxy-acetic acid, mp 81.5-82.3°, and with benzoyl chloride, its benzoate, mp 71.2-72.2°. When an alkaline solution of p-isopropylphenol was treated with potassium persulfate, an orange solution was obtained, which is characteristic of p-isopropylphenol. From the fraction with bp above 231°, a 2,4-diisopropylphenol, bp 144.5-145.6° (20 mm), n²⁰ 1.5120, was obtained. There are 7 figures; D 33 references, 9 Soviet, 18 U.S., 3 U.K., 2 Japanese, 1 German. The 5 most recent U.S. references are: Jordan, T., Vapor Pressure of Organic Compounds, N.Y. (1954); Sowa, F., Hinton, H., J. Am. Chem. Soc.,

Card 3/4

Catalytic Alkylation of Phenol With Isopropyl Alcohol

77357 sov/79-39-1-18/78

54, 3694 (1932); Hansch, C., Robertson, D., J. Am. Chem. Soc., 72, 4810 (1950); Sowa, F. C., Hennion, H. F., Nieuwland, J., J. Am. Chem. Soc., 57, 709 (1935); Garpenter, M., Wood, T., Easter, W., J. Org. Ch., 615 (1951).

ASSOCIATION:

Moscow State University (Moskovskiy gosudarstvennyy

universitet)

SUBMITTED:

January 12, 1959

Card 4/4

SOSNINA, I.Ye.; TUROVA-POLYAK, M.B.

Action of aluminum chloride on bicyclo (2,2,1) heptane. Part 26. Zhur.ob.khim. 32 no.6:1941-1942 Je 62. (MIRA 15:6)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova. (Aluminum chloride) (Norbornane)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757610005-9"

Isomerization of polymethylene hydrocarbons under the effect of aluminum chloride. Part 27: Isomerization of a-methyldecahydronaphthalene. Chloride. Part 27: Isomerization of a-methyldecahydronaphthalene. Chloride. Part 27: Isomerization of a-methyldecahydronaphthalene. (MIRA 15:6)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova. (Napthalene) (Aluminum chloride) (Isomerization)

مر" دانسه ۱

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757610005-9"

TUROVA-POLYAK, M.B.; SOSNINA, I.Ye.; YUDKINA, T.P.

Isomerization of polymethylene hydrocarbons under the effect of aluminum chloride. Part 25: Isomerization of cyclopentylcycloheptane. Zhur.ob.khim. 31 no.10:3187-3190 0 '61. (MIRA 14:10)

1. Moskovskiy gosudarstvennyy universitet. (Cycloheptane)

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KOZINA, M.P.; SKURATOV, S.M.; SHTEKHER, S.M.; SOSNINA, I.Ye.; TUROVA-POLYAK, M.B. (Moscow)

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Heats of combustion of some bicycloalkanes. Zhur.fiz.khim. 35 no.10:2316-2321 0 '61. (MIRA 14:11)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova. (Cycloalkanes) (Heat of combustion)

TUROVA-POLYAK, M.B.; BALENKOVA, Ye.S.; SOSNINA, I.Ye.; KHROMOV, S.I.; YUDKINA, T.P.

Isomerization of polymethylene hydrocarbons under the effect of aluminum chloride. Part 24: Isomerization of cyclonomane and cyclodecane. Zhur.ob.khim. 31 no.6:1976-1981 Je 161.

(MIRA 14:6)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova. (Cyclodecane) (Cyclononane) (Isomerization)

TUROVA-POLYAK, M.B.; RUDENKO, N.V.

Catalytic alkylation of bromobenzene with propyl alcohols. Zhur.ob. khim. 31 no.6:1982-1985 Je '61. (MIRA 14:6)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova. (Benzene), (Propyl alcohol)

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s/076/61/035/010/009/c15 B106/B101

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card 1/6

فلتكسد أأأما

AUTHORS:

Kozina, M. P., Skuratov, S. M., Shtekher, S. M., Sosnina, I.

Ye., and Turova-Polyak, M. B.

Combustion heats of some bicyclanes

Zhurnal fizicheskoy khimii, v. 35, no. 10, 1961, 2316-2321 TITLE:

TEXT: The authors determined the combustion heats of some bicyclic hydrocarbons with rings of 5, 6, and 7 members at 25°C. Only one series of publications exist on this subject which did not indicate either the measuring methods applied or the dependability of the results obtained (Ref. 3: (a) J. A. Goodman a. P. H. Wise, J. Amer. Chem. Soc., 73, 850, 1951; (b) K. T. Serijan a. P. H. Wise, J. Amer. Chem. Soc., 73, 4766, 5191; 74, 365, 1952; (c), (d) see below). The following hydrocarbons were examined: dicyclopentyl, dicyclopentyl methane, cyclopentyl cyclohexane, cyclopentyl cycloheptane, dicycloheptyl, trans- β -methyl deculin. The hydrocarbons were purified chromatographically on silica gel of the type KCM(KSM), then subjected to fractional vacuum distillation and finally subjected to chromatography on silica gel for another 2 or 3 times.

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Combustion heats of some ...

purity was determined by a cryoscopic method developed by A. G. Anikin, Ya. I. Gerasimov, and G. M. Dugacheva (Ref. 8: Dokl. AN SSSR, 110, 576, 1950). The calorimetric bomb used (Fig. 2) was designed by the thermokhimicheskaya laboratoriya MGU (Thermochemical Laboratory of Moscow State University), and had the following advantages as compared to other types of bombs: lower thermal inertness, simple and dependable valve construction for introducing and removing the gases, and insulated ignition wires resistant to the flame of the burning substance. The bomb was filled with oxygen free from combustion impurities to a pressure of 30 atm. Temperature of the calorimeter was measured by a specially designed thermometer allowing readings of an accuracy of 0.0002°C. Correction for the heat exchange was calculated according to the formula by Regnault-Pfaundler-Usev, and did not exceed 1% of the temperature ascent. The caloric value of the calorimeter system was determined by burning benzoic acid produced by the Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii im. D. I. Mendeleyeva (All-Union Scientific Research Institute of Metrology imeni D. I. Mendeleyev). The weight of the burned substance was found by determining the quantity of carbon dioxide produced by combustion. Carbon dioxide was absorbed by ascarite and its quantity determined by weighing

是这个人,我们也是一个人的现在,我们也是是一个人的人,我们就是一个人的一个人的人,不是一个人的人,我们们的一个人的人,我们们是这个人的人,我们们也是我们的人的人

Card 2/6

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Combustion heats of some ...

the absorption vessel. Accuracy of this method of ${\rm CG}_2$ determination was \pm 0.02%. Table 4 shows the results of determinations. By comparing the data obtained with the known values for the combustion heat of the corresponding monocyclanes (Ref. 13: Sj. Kaarsemaker a. J. Coops, Rec. trav. chim., 71, 261, 1952) and of trans-decalin (Ref. 14: G. F. Davies a. E. C. Gilbert, J. Amer. Chem. Soc., 63, 1585, 1941) the following relations could be established: combustion heat of any bicyclane consisting of rings with more than 4 carbon atoms: $\Delta H_{\text{comb}}^{25} = \Delta H' + \Delta H'' + 60.1 \text{ kcal/mole} (\Delta H', \Delta H'' = \text{combustion heats of}$ monocyclanes constituting the corresponding bicyclane; 60.1 kcal/mole = reaction enthalpy for forming a molecule of bicyclane and a molecule of hydrogen from 2 molecules of the corresponding monocyclanes); combustion heats of trans-β-alkyl decalins (for nonramified alkyl radicals): $\Delta H_{\text{comb}}^{25}$ = 1500.3 + 154.2 + (n-1)-156.2 kcal/mole (1500.3 = combustion heat of trans-decalin; 154.2 = increment of the CH2 group directly bound to the ring; 156.2 = increment for a CH2 group in the nonramified alkyl radical; Card 3/6

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757610005-9"

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Combustion heats of some ... n = number of carbon atoms in the alkyl radical); combustion heats of bicyclanes separated by a methylene group, i.e., compounds of the type X^{1} ... CH_{2} - Y^{1} (X^{1} , Y^{1} = radicals of the corresponding monocyclanes): $-\Delta H_{\text{comb}}^{25} = -(\Delta H_{X} + \Delta H_{Y}) - 60.1 + 155.3 \text{ kcal/mole} (\Delta H_{X}, \Delta H_{Y} + \Delta H_{Y}) - 60.1 + 155.3 \text{ kcal/mole}$ heats of the corresponding monocyclanes; 155.3 = increment of the CH_2 group bound to two rings); isomerization enthalpies for the liquid state at 25°C: dicyclopentyl to trans-decalin ($\Delta H_{is}^{c} = -13.2 \text{ kcal/mole}$); cyclopentyl cyclohexane to trans- β -methyl decalin (Δ H_{is} = 8.2 kcal/mole); dicyclopentyl methane to trans- β -methyl decalin ($\Delta H_{is}^{min} = -14.2 \text{ kcal/mole}$). There are 2 figures, 4 tables, and 15 references: 6 Soviet and 9 non-Soviet-bloc. The three most recent references to English-language Soviet-bloc. The three most recent references to English-language publications read as follows. J. B. Greenshields a. F. D. Rossini, J. Res. Nat. Bur. Standards, 62, 271, 1958; Ref. 3: (c) R. M. Caves. R. L. McLanghlin a. P. H. Wise, J. Amer. Chem. Soc., 76, 522, 1954; (d) J. H. Lamneck, jr, a. P. H. Wise J. Amer. Soc., 76, 5108, 1954.

card 4/6

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Combustion heats of some ...

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ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova

(Moscow State University imeni M. V. Lomonosov)

SUBMITTED: February 25, 1960

Fig. 2. Cross section of the calorimetric bomb. Legend: (1), (2) conical valves for introducing and removing the gas; (3), (4) stuffing boxes; (5) sleeve nut for sealing the bomb; (6) rubber packing ring; (7) threaded ring to keep packing tight, when pressure drops to 1 atm in the bomb; (8), (9) connecting terminals; (10) ignition wires; (11) cup holding the

substance to be burned.

Card 5/6

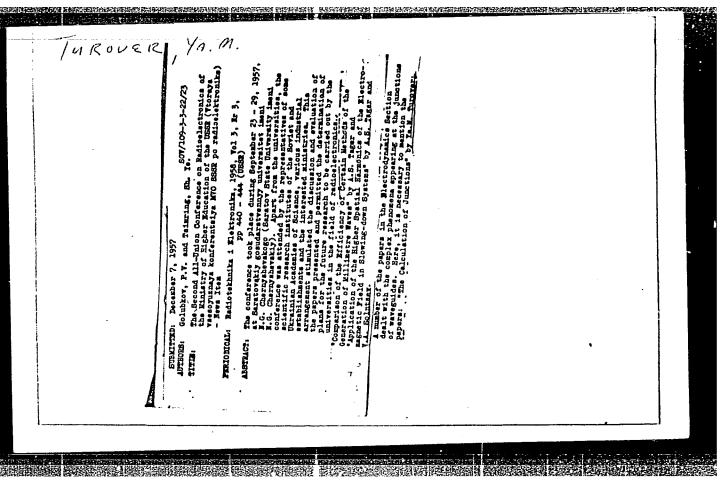
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TUROVER, Ya.M.; STRUTINSKIY, N.I.

Use of Chebyshev's pelynomials to calculate gradual transitions.

Radiototh, i elektron. 1 me.2:143-161 F '56. (MIRA 9:7)

(Pelynomials) (Electric lines)



TUROVER, GA.M.

USSR / Acoustics. Sound Oscillations and Waves.

J-2

Abs Jour : Ref Zhur - Fizika No 3, 1957, No 7439

Author : Turover, Ya.M.

: On the Laws of Periodic Structures, Established by N.P. Kasterin Ti tle

in 1898 -- 1904.

Orig Pub : Tr. H - i. in-ta M-va radiotekhn. prom-sti, 1955, vyp. 4, 63-64

Abstract : Brief description of the work of N.P. Kasterin "On the Propaga-

tion of Waves in an Inhomogeneous Medium" (Uch. Zapiski Imp.

Mosk, un-ta, 1904, No 20).

Card : 1/1

- 72 -

IUKOVEK	Сементиче застанов в ставой распратравания ра- досемия А. В. Прекая, В. Ф. Тубкая Некозторые закоры текро разместанска прочая пре рассеминостанов распратравания УКВ А. В. Пракая, Г. К. Санбоднов, В. В. Досеми, Зассеминостальное испалование разместаного пре- ене при аблити троимского распратранными УКВ (с 12 до 16 часов) В. Ф. Пектируя Об петеральное шегая обхаружение приумень- го ситовая на фоне шуна. В. А. Лововой В. В. Ветрания принежения в заперетуре закуль- по падменения приумень в заперетуре закуль- по падменения приумень в заперетуре закуль- по падменения приумень в заперетуре закуль-	С. В. Дазмен (Чети Аналия) Румпильно преобразнения в анготуры на при питета. А. Г. Дарфина Расчт чатотных карактератии иналиция спа- перачице инсентация принесов при частиней по- дуаван. (6 папая (с 10 до 16 часов) А. Я. Местине Атогоо пучение разристетры пейница интаклов В. В. Месченинейчер, Г. С. Мескениней Дентининейчер, Г. С. Мескениней		
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TUROVER, Ya. M.

TUROVER, Ya. M.

Method of calculating local reflection coefficients at the optimum

Method of transitions. Radiotekh. i elektron. 2 no.4:395-400 Ap '57.

stages of transitions. (Radio, Shortwave)

(Polynomials) (Radio, Shortwave)

SOV-109-3-6-20/27

AUTHOR: Turover, Ya. M.

Approximate Calculation of the Mutual Inductance of the Coupling Loop in the Cylindrical Cavity of a Multi-Resonator TITLE: System (Priblizhennyy raschet vzaimoinduktsii petli svyazi i tsilindricheskoy polosti mnogorezonatornoy sistemy)

PERIODICAL: Radiotekhnika i Elektronika, 1958, Vol 3, Nr 6, pp 839-843 (USSR)

The problem is solved under the following assumptions: 1) the coupling loop is comparatively small, 2) the current distribution in the loop is uniform, 3) the field in the cylindrical cavity in the vicinity of the loop is uniform, and (4) the loop does not distort the field in the cavity. By employing the ideas of Hansen (Ref. 2), the magnetic field at a point on the axis of the cavity at a distance. ABSTRACT: at a point on the axis of the cavity at a distance x from the centre (see Fig.la) is given by Eq.(1). From this it follows that the mutual inductance for the case of Fig.lb is given by Eq.(2) while for the system of Fig.1B it is expressed by Eq.(3) where $1 = 2\pi r$. The inductance can be expressed by Eq.(3) . The inductance can also be derived from the integral represented by Eq.(4) The approximate solution of the integral gives the mutual inductances in the form of Eqs. (5), (6) and (7). Eq.(7) was derived for the case when the loop is situated

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SOV-109-3-6-20/27

Approximate Calculation of the Mutual Inductance of the Coupling Loop in the Cylindrical Cavity of a Multi-Resonator System

in a magnetic field twice as strong as that of the magnetic flux of a single cavity. The mutual inductance, or the coupling coefficient, of the loop, was measured indirectly by means of the equipment shown schematically in Fig.2. The results are shown in Fig.5 where Curve 1 represents the experimental results, Curve 2 corresponds to the values of the mutual inductance as calculated from Eq.(2) and Curve 3 relates to the mutual inductance as evaluated from Eq.(7). The inductance L in Fig.5 was calculated by means of Eq.(9). The author expresses thanks to B. S. Grishin and

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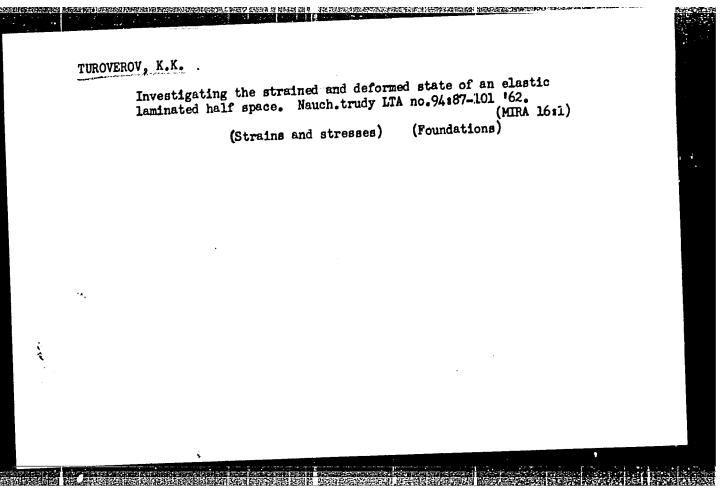
Approximate Calculation of the Mutual Inductance of the Coupling Loop in the Cylindrical Cavity of a Multi-Resonator System

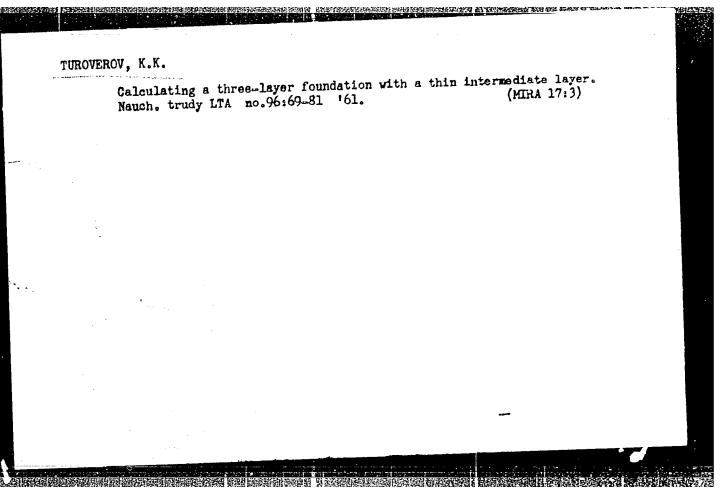
B. S. Marchenko, for their help in carrying out the measurements. The paper contains 5 figures and 5 references, 3 of which are English and 2 Soviet.

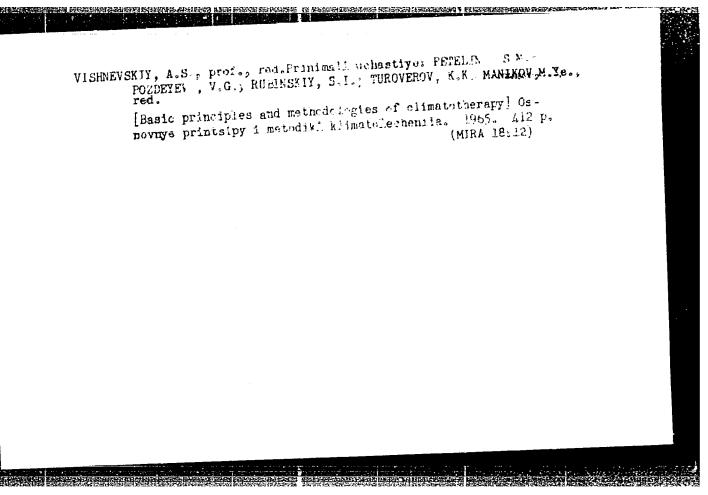
SUBMITTED: March 22, 1956 and after revision, August 15, 1957.

 Cavity resonators - Performance 2. Coupling circuits -Applications 3. Mathematics - Applications

Card 3/3







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,我就是我们的自己的,我们就是我们的,我们就是我们的,我们就是我们的,我们就是我们的,我们就是我们的人们,我们也是我们的,我们也会会会会会会会会会会。 第一章

CIA-RDP86-00513R001757610005-9

· TUROVEROV, KK.

21

PHASE I BOOK EXPLOITATION SOV/5729

Teningrad. Glavnaya geofizicheskaya observatoriya.

Verreny prikladnoy klimatologii; sbornik statey (Problems in Applied climatology; Collection of Articles) Leningrad, Gidrometeoizdat, 1960. 159 p. Errata slip inserted. 1,050 copies printed.

Sponsoring Agency: Glavnoye upravleniye gidrometeorologicheskoy sluchby pri Sovete Ministrov SSSR. Glavnaya geofizicheskaya ebservatoriya im. A. I. Voyeykova.

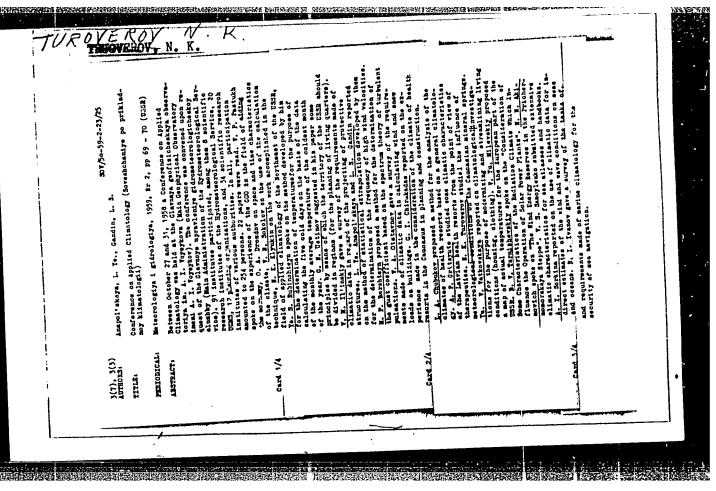
Ed. (Title page): F. F. Davitay, Doctor of Agricultural Sciences; Ed.: L. P. Zhdanova; Tech. Ed.: N. V. Volkov.

PURFOSE: This publication is intended for applied climatologists and planners in climate-dependent industries.

COVERAGE: This collection of 18 articles contains reports orignally presented at the Conference on Applied Climatology in Leningrad in October 1958. The purpose of the conference was to summarize the results of research done in the field of applied Card 1/4.

i * 1		2-1		
	Problems in Applied Climatology (Cont.) 807/5729			ı
	climatology and to point the way for further investigations. In dividual articles deal with general problems in applied climatology and special problems in engineering and industrial climatology, nedical and health report climatology, climatic energy resources, and marine climatology. No personalities are mention References follow individual articles.	•		
	MAPLE OF CONTENTS:			
	Foreword	3		٠.
	GENERAL PROBLEMS		!	
	Drozdov, O. A. [Glavnaya geofizicheskaya observatoriya im. A. I. Yoyeykova Main Geophysical Observatory imeni A. I. Voyeykov]. Spatial and Temporal Climatic Characteristics Required to Servathe Needs of the National Economy	• 5		
	Sapezhnikova, S. A. [Nauchno-issledovatel'skiy institut deroklimat- clogii Scientific Research Institute of Aeroclimatology] On Card 2/7	-		
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PROBLEMS IN MEDICAL AND HEALTH RESORT CLIMATOLOGY Chirakadze, G. I. [Tbilisskiy nauchno-issledovatel skiy gldro-meteorologicheskiy institut Tbilisi Hydrometeorological Scientific Research Institute]. Climatic Principles in Planning the Senetruction and Operation of a Health Resort 86	
PROBLEMS IN MEDICAL AND HEALTH RESORT CLIMATOLOGY Chirakadze, G. I. [Tbilisskiy nauchno-issledovatel'skiy gldro- metsorologicheskiy institut Tbilisi Hydrometeorological Sci- entific Research Institute]. Climatic Principles in Planning the Senetruction and Operation of a Health Resort 86	
PROBLEMS IN MEDICAL AND HEALTH RESORT CLIMATOLOGY Chirakadze, G. I. [Tbilisskiy nauchno-issledovatel'skiy gldro- meteorologicheskiy institut Tbilisi Hydrometeorological Sci- entific Research Institute]. Climatic Principles in Planning the Genetruction and Operation of a Health Resort 86	
entific Research Institute]. Climatic Principles in Planning the dentific and Operation of a Health Resort	
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Chubukov, L. A. [Tsentral'nyy institut kurortologii i Institut geografii AN SSSR Central Institute of Natural Medical Factors and the Institute of Geography AS USSR]. Methods of the Comparative Analysis of the Climate of Health Resorts and Therapeutic Lecalities and Their Classification	
Throveroy, K. K. [Gosudarstvennyy bal'neologicheskiy institut The Kavkazskikh Mineral'nykh Vodakh State Balneological In- stitute at Kavkazskiye Mineral'nyye Vody (Caucasian Mineral Waters)]. Effect of Meteorological Conditions on the Regime of Mineral Springs of the Caucasian Mineral Waters 98	
Card 5/7	
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TUROVEROVA, N.I., kand. med. nauk

Determination of the duration of prenatal leave. Akush. i gin. (MIRA 17:6) no.1198-101 '63.

1. Iz kafedry organizatsii zdravookhraneniya (zav. - dotsent N.G. Sinyavskaya) i kafedry akusherstva i ginekologii (zav.prof. A.I. Petchenko) Leningradskogo pediatricheskogo meditsinskogo instituta.

CIA-RDP86-00513R001757610005-9 "APPROVED FOR RELEASE: 04/03/2001 HANNE AND PROPERTY OF THE PROP

TUROVEROVA, N.I., kand. med. nauk; TREYVUSH, A.I.

Diagnosis of gonorrhea in gynecological consultation centers. Akush. i gin. 38 no.5:116-117 S-0 '62.

(MIRA 17:11)

1. Iz akushersko-ginekologicheskoy kliniki (zav. - prof. A.I. Petchenko) Leningradskogo pediatricheskogo meditsinskogo instituta.

CIA-RDP86-00513R001757610005-9" APPROVED FOR RELEASE: 04/03/2001

TUROVEROVA, N.I.

Puerperal Convulsions

Prevention of eclampsia in gynecological and obstetric consultation centers. Vop. pediat. i okhr. mat. i det. 20, no. 2, 1952.

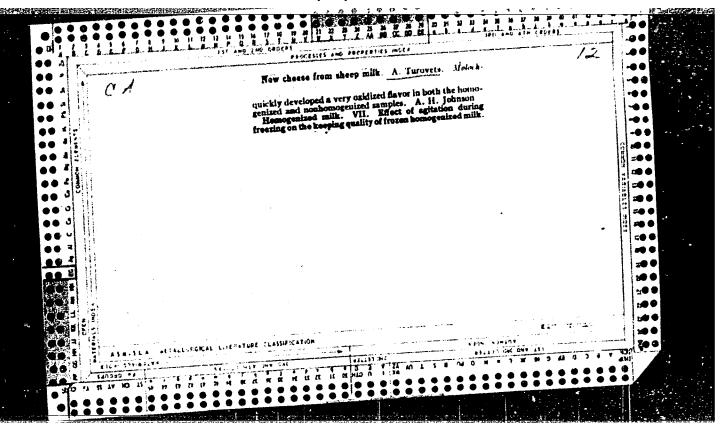
AUGUST 1952 1965 Unclassified. 9. Monthly List of Russian Accessions, Library of Congress,

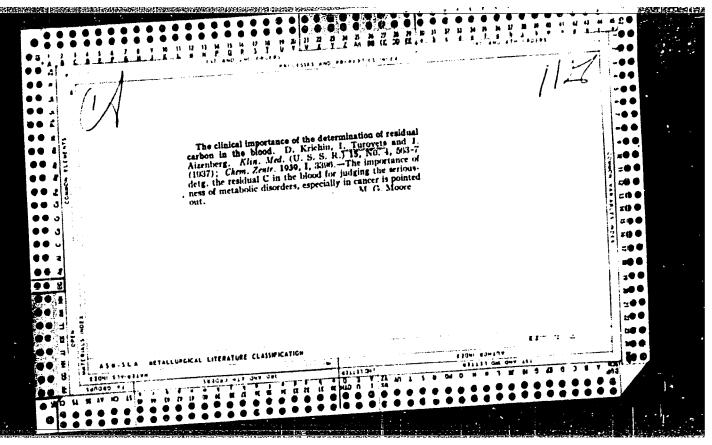
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Gynecology	consultation center.	
Gynecology Prevention of eclampsia in gynecological and obstetric Vop. pediat. i okhr. mat. i det. 20, no. 2, 1952.		
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TUROVETS, A. T. IBMATHOVA, T. 33239. K Voprosu O Vykhode I Ucushke Brynzy. Moloch From-st', 1949, No. 10, c. 40-41

So: "etopis' Zhurnal'nykh Statey, Vol. 45, Maskva, 1949





BRATUS', V.D., dots., otv. red.; AMOSOV, N.M., prof., red.;
KOLOMIYCHENKO, M.I., prof., red.; FEDOROVSKIY, A.A.,
prof., red.; TUROYETS, I.G., prof., red.; KUCHKOV, I.Ie.,
dots., red.; LEVCHUK, G.A., dots., red.; TRESHCHINSKIY, A.I.,
dots., red.; KOCHKOV, I.Ye., red.; CHUCHUPAK, V.D., tekhn.red.

[Problems of anesthesiology] Voprosy anesteziologii. Sbornik
nauchnykh rabot, posviashchennyi 70-letiiu so dnia rozhderiia
nauchnykh rabot, posviashchennyi 70-letiiu so dnia rozhderiia
chlena-korr. AN USSR, zasl. delatelia nauki prof. I.N.Ishchenko.
Kiev, Gosmedizdat USSR, 1963. 254 p. (MIRA 16:7)

1. Kiev. Medychnyi instytut.
(ISHCHENKO, IVAN NIKOLAEVICH, 1891-) (ANESTHESIOLOGY)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001757610005-9"

TUROVETS, I.G., prof. (Kiyev, ul. Engel'sa, d.26, kv.8); TOLSTOVA, G.M., kand.med.nauk

ARRIGANISTI BERTARI PARTITURA DE LA CONTROLLA
Potentiated anesthesia in surgery. Nov.khir.arkh. no.1: 54-63 Ja-F '59. (MIRA 12:6)

1. Kafedra khirurgii (zav. - prof.I.G.Turovets) sanitarnogigiyenicheskogo fakul'teta Kiyevskogo meditsinskogo instituta. (ANESTHESIA)

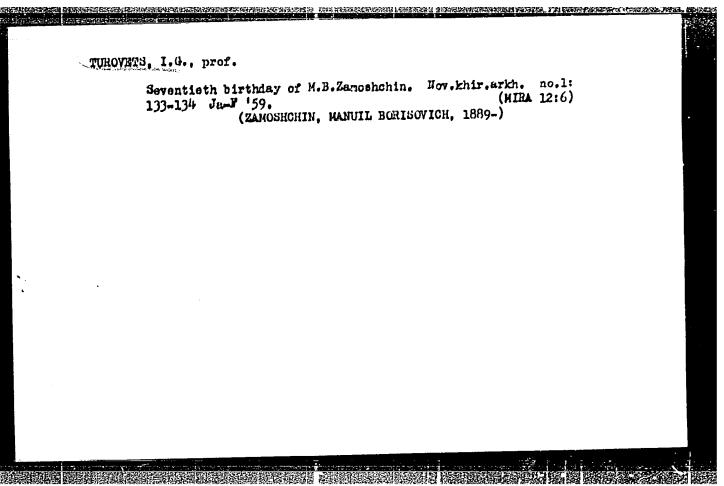
TUROVETS, I.G., prof. (Kiyev, ul.Engel'sa, d.26, kv.8)

Basic principles of the prophylaxis and treatment of mastitis.

Hov.khir.arkh. no.4:16-27 Jl-Ag '59. (MIHA 12:11)

1. Kafedra khirurgii (zav. - prof.I.G.Turovets) sanitarnogligiyenicheskogo fakul'teta Kiyevskogo meditsinskogo instituta.

(BRKAST--DISMASES)



TUROVETS, I.G., prof.

Neuroplegia in the operative treatment of goiter patients. Vrach.delo no.11:63-67 N *62. (MIRA 16:2)

1. Kafedra khirurgii (zav. - prof. I.G. Turovets) sanitarnogigiyenicheskogo fakul'teta Kiyevskogo meditsinskogo instituta. (GOITER) (AUTONOMIC DRUGS)

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TUROVETS, I.G., prof. (Kiyev, ul. Engel'sa, d.26, kv.8)

Usr of anticoagulants in the compound treatment of thrombophlebitis and phlebothrombosis. How.khir. arkh. no.6:17-25 H-D '57.

1. Kafedra khirurgii sanitarno-gigiyenicheskogo fakul'teta (zav. - prof. I.G.Turovets) Kiyevekogo meditsinskogo instituts.

(AUTICOAGULANTS (MEDICINE))

(VEINS--DISMASES)
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TUROVETS, I.G., prof., ULANOVSKIY, I.N., kand.med.nauk

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Is ligation of the hepatic artery permissible in treating portal hypertension. Vrach.delo no.8:815-818 Ag 158 (MIRA 11:8)

1. Kafedra khirurgii sanitarno-gigiyenicheskogo fakul'teta (zav. prof. I.G. Turovets) Kiyevakogo meditsinskogo instituta. (HEPATIC ARTERY-LIGATURE) (HYPERTENSION)

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TUROVETS, I.G., prof.

Thrombophlebitis and phlebothrombosis of the lower extremities not responding to anticoagulant treatment. Vrach.delo no.2:117-121 F 158. (MIRA 11:3)

1. Khirurgicheskaya klinika (zav.-prof. I.G.Turovets) sanitarnogigiyenicheskogo fakul'teta Kiyevskogo meditsinskogo instituta. (PHLEBITIS) (THROMBOSIS)

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TUROVETS, I.G., prof. (Kiyev, ul.Chkalova, d.37a, kv.12)

Some problems of thrombosis and embolism in surgery. Nov. khir. arkh. no.9:34-41 S '61. (MITA 14:10)

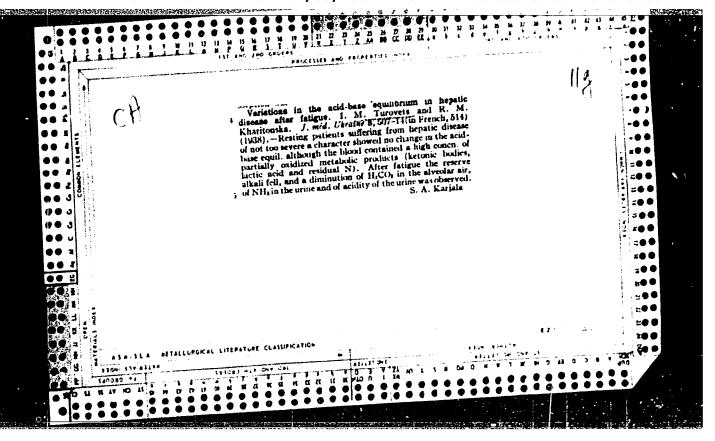
(SURGERY_COMPLICATIONS AND SEQUELAE)

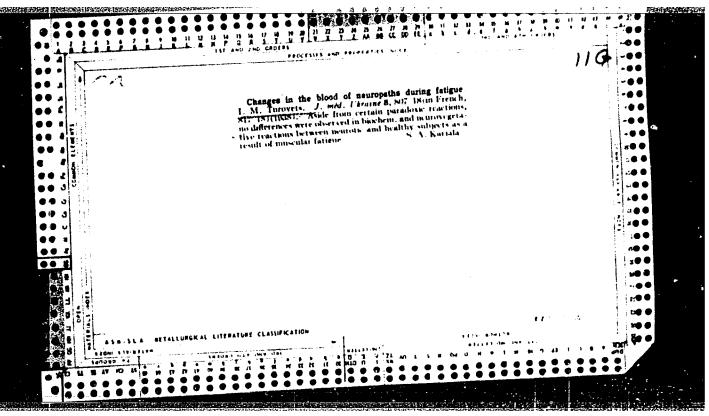
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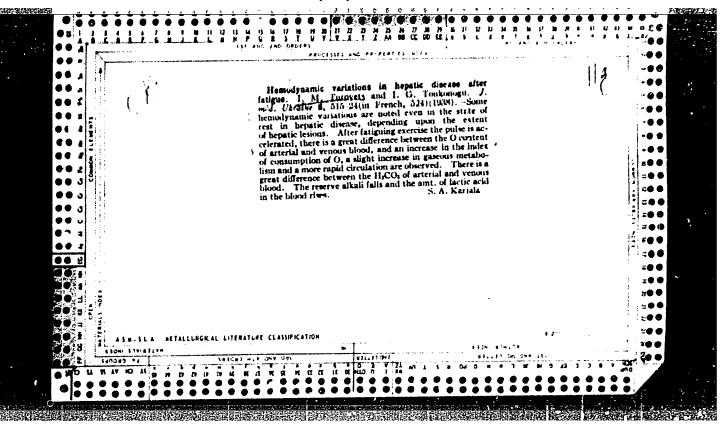
TUROVETS, I.G., prof. (Kiyev, ul.Chkalova, d. 37a, kv.12); TOLSTOVA, G.M.; BOGOMOLETS, I.S., dotsent

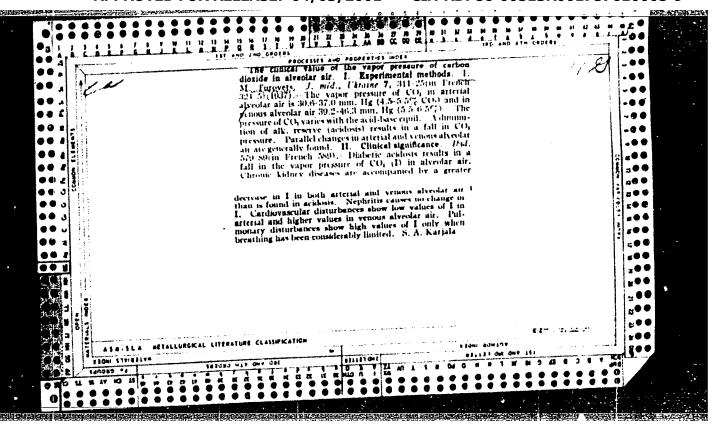
Anesthesia methods in operations for diseases of the biliary tract. Klin.khir. no.7:53-58 Jl '62. (MIRA 15:9)

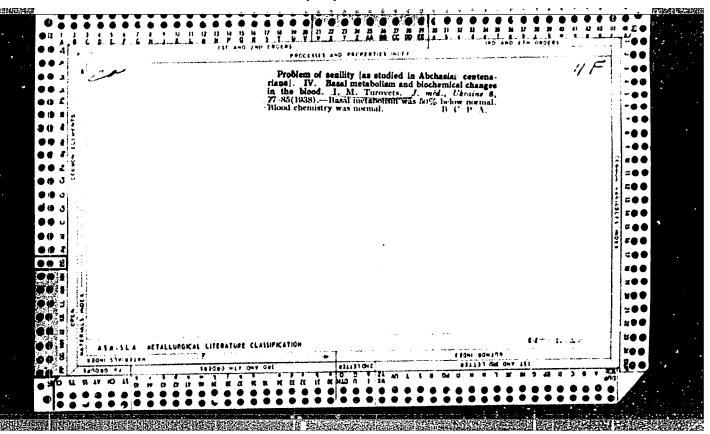
1. Kafedra khirurgii (zav. - prof. I.G.Turovets) sanitarno-gigiyenicheskogo fakul'teta Kiyevskogo meditsinskogo instituta. (BILIARY TRACT-SURGERY) (ANESTHESIA)

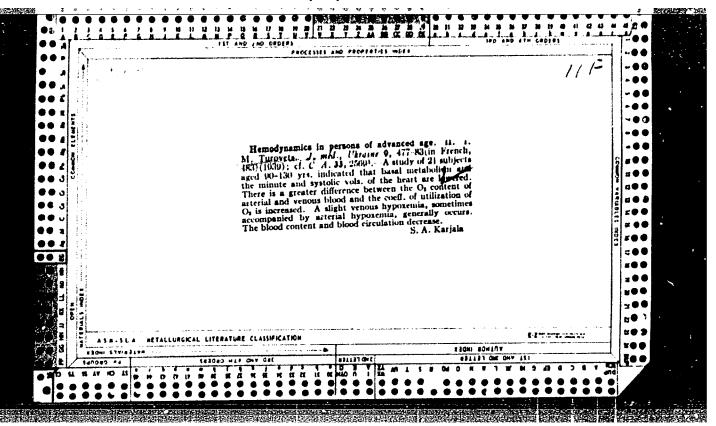


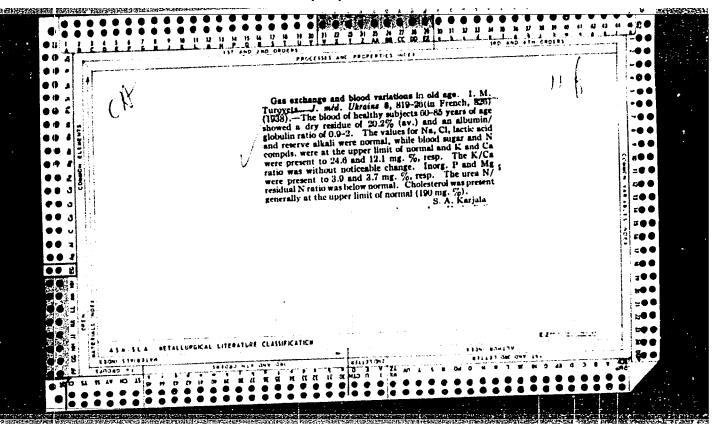


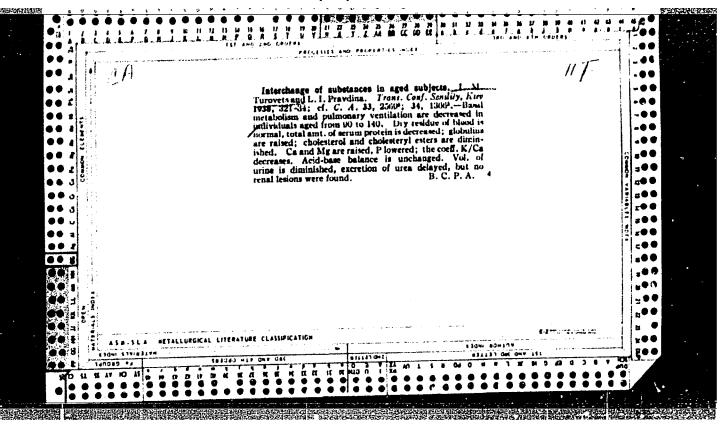


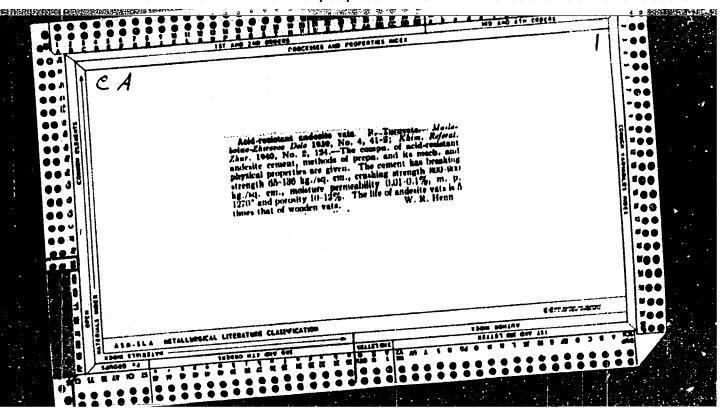












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Gives a chart of freight turnover in the ports of U raine. A map of the canal system of the rivers Dniepr and Bug.

DLC: HE675.1UsT8

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